

**Table 6-1****Research doctorate recipients with definite postgraduation commitments, by major field of doctorate: 2022**

(Number)

Field of doctorate	All doctorate recipients	Doctorate recipients with definite commitments	Location of definite commitments						
			United States					Abroad	Unknown
			Total	Postdoctoral study	Academic employment	Industry employment <sup>a</sup>	Other <sup>b</sup>		
All fields	57,596	38,147	34,738	13,288	6,966	10,316	4,168	3,367	42
Science and engineering	45,924	30,929	28,266	12,328	3,650	9,677	2,611	2,626	37
Agricultural sciences and natural resources	1,305	849	752	366	109	189	88	96	1
Agricultural, animal, plant, and veterinary sciences	857	562	490	223	72	160	35	71	1
Natural resources and conservation	448	287	262	143	37	29	53	25	0
Biological and biomedical sciences	9,386	6,230	5,880	3,524	449	1,561	346	343	7
Biochemistry, biophysics, and molecular biology	1,555	1,038	965	589	D	292	D	70	3
Bioinformatics, biostatistics, and computational biology	688	488	468	151	46	239	32	17	3
Cell/ cellular biology and anatomy	689	433	419	252	25	130	12	14	0
Ecology, evolutionary biology, and epidemiology	1,120	785	725	462	77	70	116	59	1
Genetics and genomics	436	288	271	174	13	68	16	17	0
Microbiology and immunology	1,089	723	691	447	45	177	22	32	0
Neurobiology and neurosciences	1,177	784	754	533	43	157	21	30	0
Pharmacology and toxicology	386	270	254	130	D	108	D	16	0
Physiology, oncology, and cancer biology	768	530	501	303	63	113	22	29	0
Biological and biomedical sciences, other	1,478	891	832	483	80	207	62	59	0
Computer and information sciences	2,188	1,564	1,426	287	207	844	88	136	2
Computer science	1,484	1,081	991	197	135	609	50	90	0
Computer and information sciences, other	704	483	435	90	72	235	38	46	2
Engineering	10,763	7,077	6,500	2,145	466	3,397	492	568	9
Biological, biomedical, and biosystems engineering	1,236	760	725	327	45	327	26	35	0
Chemical and petroleum engineering	1,255	823	758	262	23	443	30	64	1
Civil, environmental, and transportation engineering	1,315	864	770	308	70	306	86	93	1
Electrical and computer engineering	2,132	1,469	1,345	276	90	905	74	122	2

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Engineering technologies	361	278	246	66	17	149	14	31	1
Industrial engineering and operations research	655	441	386	79	57	202	48	53	2
Materials and mining engineering	925	578	536	204	19	284	29	42	0
Mechanical engineering	1,545	997	935	349	66	446	74	61	1
Engineering, other	1,339	867	799	274	79	335	111	67	1
Geosciences, atmospheric, and ocean sciences	1,165	815	742	484	54	113	91	73	0
Geological and earth sciences	658	440	388	227	30	74	57	52	0
Ocean, marine, and atmospheric sciences	507	375	354	257	24	39	34	21	0
Health sciences	2,808	1,846	1,717	534	523	354	306	127	2
Nursing and nursing science	623	423	399	66	202	34	97	24	0
Pharmacy and pharmaceutical sciences	460	290	264	99	7	143	15	25	1
Public health	795	547	511	213	113	71	114	36	0
Health sciences, other	930	586	543	156	201	106	80	42	1
Mathematics and statistics	2,144	1,486	1,264	547	199	444	74	219	3
Applied mathematics	477	338	307	135	35	110	27	31	0
Mathematics	980	651	504	282	109	86	27	144	3
Statistics	687	497	453	130	55	248	20	44	0
Multidisciplinary/interdisciplinary sciences	1,788	1,211	1,094	340	160	495	99	113	4
Interdisciplinary computer sciences	625	432	386	81	45	230	30	43	3
Multidisciplinary/interdisciplinary sciences, other	1,163	779	708	259	115	265	69	70	1
Physical sciences	5,428	3,697	3,374	1,656	178	1,387	153	319	4
Astronomy and astrophysics	289	215	190	143	12	28	7	25	0
Chemistry	2,782	1,891	1,789	795	97	828	69	100	2
Materials sciences	385	269	249	102	9	130	8	20	0
Physics	1,972	1,322	1,146	616	60	401	69	174	2
Psychology	3,900	2,687	2,603	1,570	370	345	318	82	2
Clinical psychology	1,144	877	D	753	23	D	57	D	2
Counseling and applied psychology	1,438	1,012	980	453	176	173	178	32	0
Research and experimental psychology	854	570	534	265	116	103	50	36	0
Psychology, other	464	228	D	99	55	D	33	D	0

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Social sciences	5,049	3,467	2,914	875	935	548	556	550	3
Anthropology	409	248	212	105	52	24	31	36	0
Area, ethnic, cultural, gender, and group studies	442	286	255	83	121	18	33	31	0
Economics	1,391	1,076	830	175	209	285	161	244	2
Political science and government	678	467	399	134	141	58	66	68	0
Public policy analysis	433	274	252	60	64	39	89	22	0
Sociology, demography, and population studies	626	442	400	144	147	44	65	41	1
Social sciences, other	1,070	674	566	174	201	80	111	108	0
Non-science and engineering	11,672	7,218	6,472	960	3,316	639	1,557	741	5
Business	1,401	1,004	826	69	554	138	65	177	1
Business administration and management	445	278	233	19	135	48	31	44	1
Business, other	956	726	593	50	419	90	34	133	0
Education	3,919	2,561	2,412	209	1,172	182	849	149	0
Education leadership and administration	1,167	831	804	37	395	44	328	27	0
Education research	1,189	747	698	69	326	88	215	49	0
Teacher education	1,099	716	660	64	343	34	219	56	0
Education, other	464	267	250	39	108	16	87	17	0
Humanities	3,369	1,914	1,681	390	813	124	354	231	2
English language and literature, letters	1,062	601	556	108	319	41	88	44	1
Foreign languages, literatures, and linguistics	538	277	238	50	130	21	37	39	0
History	732	444	384	120	151	24	89	60	0
Philosophy and religious studies	642	378	321	90	158	21	52	56	1
Humanities, other	395	214	182	22	55	17	88	32	0
Visual and performing arts	842	420	369	71	186	50	62	51	0
Performing arts	495	233	203	24	113	30	36	30	0
Visual arts, media studies, and design	347	187	166	47	73	20	26	21	0
Other non-science and engineering	2,141	1,319	1,184	221	591	145	227	133	2
Communications and journalism	586	377	345	65	218	33	29	32	0
Multidisciplinary/interdisciplinary studies	391	219	191	28	81	31	51	27	1
Public administration and social services	468	292	271	46	107	30	88	20	1
Non-science and engineering, other	696	431	377	82	185	51	59	54	0

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> Includes doctorate recipients reporting self-employment.

<sup>b</sup> Includes doctorate recipients reporting government, nonprofit, elementary or secondary school, or other employment and those with unknown employment.

**Note(s):**

A definite postgraduation commitment includes accepting new employment or a postdoctoral study (postdoc) position or returning to predoctoral employment. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.